

WHAT IS CLAIMED IS:

1 1. A game ball comprising a spherical carcass and a one-piece cover, the cover being
2 free of a backing layer, the cover surrounding the carcass and bonded to the carcass without an
3 adhesive, the cover having a thickness less than 0.8 mm.

1 2. The game ball of claim 1, wherein the cover is formed of a material selected from
2 the group consisting of a wet process polyurethane, a dry process polyurethane, a coagulated
3 polyurethane, other polyurethanes and combinations thereof.

1 3. The game ball of claim 1, wherein the carcass includes a bladder and at least one
2 thread wound around the bladder.

1 4. The game ball of claim 3, wherein the carcass further includes at least one panel
2 molded over the thread-wound bladder.

1 5. The game ball of claim 1, wherein the cover is formed of a material having a
2 density within the range of 200-1200 kg/m³.

1 6. The game ball of claim 1, wherein the cover is formed of a material having a
2 density within the range of 400-600 kg/m³.

1 7. The game ball of claim 1, wherein the cover is formed of a material having a
2 density within the range of 250-350 kg/m³.

1 8. The game ball of claim 1, wherein the cover is formed of a material having a
2 density within the range of 600-850 kg/m³.

1 9. The game ball of claim 1 wherein the cover has a thickness within the range of
2 0.2 and 0.75 mm.

1 10. The game ball of claim 1, wherein the cover has a thickness of less than 0.5 mm.

1 11. A game ball comprising:

2 a carcass; and

3 a cover layer formed without a backing layer, the cover layer substantially
4 surrounding the carcass, the cover layer having a thickness less than 0.8 mm, the cover layer
5 being selected from the group consisting of a sprayed-on cover, a painted-on cover, an electro-
6 statically painted-on cover, a brushed-on cover, a dipped-on cover, and combinations thereof.

1 12. The game ball of claim 11, wherein the cover layer is a one-piece structure.

1 13. The game ball of claim 11 wherein the cover layer is formed of a material
2 selected from the group consisting of a urethane, a wet process polyurethane, a dry process
3 polyurethane, a coagulated polyurethane, other polyurethanes, a plastic, and combinations
4 thereof.

1 14. The game ball of claim 11 wherein the carcass includes an inflatable bladder and
2 at least one thread wound around the bladder.

1 15. The game ball of claim 14 wherein the carcass further includes at least one panel
2 molded over the thread-wound bladder.

1 16. The game ball of claim 11, wherein the cover layer is formed of a material having
2 a density within the range of 200-1200 kg/m³.

1 17. The game ball of claim 11, wherein the cover layer is formed of a material having
2 a density within the range of 400-600 kg/m³.

1 18. The game ball of claim 11, wherein the cover layer is formed of a material having
2 a density within the range of 250-350 kg/m³.

1 19. The game ball of claim 11, wherein the cover layer is formed of a material having
2 a density within the range of 600-850 kg/m³.

1 20. The game ball of claim 11 wherein the cover layer is formed around the carcass
2 without the use of an adhesive agent.

1 21. The game ball of claim 11 further comprising an adhesive agent at least partially
2 connecting the cover layer to the carcass.

1 22. The game ball of claim 11 wherein the cover layer has a thickness within the
2 range of 0.2 and 0.75 mm.

1 23. The game ball of claim 11, wherein the game ball is selected from the group
2 consisting of a basketball, a football, a soccer ball and a volleyball.

1 24. The game ball of claim 11, wherein the cover layer has a thickness of less than 0.5
2 mm.

1 25. A game ball comprising a spherical carcass and a cover, the cover including a thin
2 layer of backing cloth and a cover including a resilient cover material integrally formed with the
3 thin layer of backing, the cover material selected from the group consisting of a wet process
4 polyurethane, a dry process polyurethane, a coagulated polyurethane, other polyurethanes and
5 combinations thereof, the cover surrounding the carcass and having a thickness less than 0.8 mm.

1 26. The game ball of claim 25 wherein the cover is bonded to carcass with an
2 adhesive.

3 27. The game ball of claim 25, wherein the cover material has a density within the
4 range of 200-1200 kg/m³.

1 28. The game ball of claim 25, wherein the cover material has a density within the
2 range of 400-600 kg/m³.

1 29. The game ball of claim 25, wherein the cover material has a density within the
2 range of 250-350 kg/m³.

1 30. The game ball of claim 25, wherein the cover material has a density within the
2 range of 600-850 kg/m³.

1 31. The game ball of claim 25, wherein the cover has a thickness within the range of
2 0.2 and 0.75 mm.

1 32. The game ball of claim 25, wherein the cover has a thickness of less than 0.5 mm.